EXECUTIVE ORDER U-R-044-0007 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)	
2003	3DCLL.927D75	0.927	Diesel	3000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION		
Indirect Diesel Injection			Tractor		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)			OPACITY (%)				
POWER CLASS			нс	NOx	NMHC+NOx	O	PM	ACCEL	LUG	PEAK
8 <u><</u> KW < 19	Tier 1	STD	N/A	N/A	9.5	6.6	0.80	20	15	50
		CERT			6.2	3.3	0.68	8	8	14

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this ______ day of January 2003.

Allen Lyons, Chief

Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Form

Engine category: Nonroad CI

//anufacturer:

Daedong Industrial Co. Ltd

EPA Engine Family: 3DCLL.927D75

Mfr Family Name: NA

Process Code: New Submission

1000-440-00-N

3C093A	3C093D	•
3C093	3C093	
21@2800	19@2800	3.BHP@RPM (SAE Gross)
19.5	17.4 8.1	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesels only)
9.04	8.1	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
44.5@1900	40.4@1700	6.Torque @ RPM (SEA Gross)
21.6	19.3	7.Fuel Kate: mm/stroke@peak torque
6.81	5,45	8.Fuel Rate: (lbs/hr)@peak torque
NA TOI	NA IDI +	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

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